

Message Text

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TO USMISSION EC BRUSSELS

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E.O. 11652: N/A

TAGS: TECH, FR

SUBJ: ADVANCED LMFBR FUELS-FRANCE

EC FOR ROSEN, USAEC

WITH REFERENCE TO YOUR SEPT13 CABLE (EC BRUSSELS 7049)
ON FRENCH ADVANCED LMFBR FUELS PROGRAM, FOLLOWING IS THE LIST
OF QUESTIONS REFERRED BY DR. JOSEPH LEARY, RRD, DURING HIS
TELEPHONE CONVERSATION WITH DR. SOL ROSEN, OCT 1. THE
QUESTIONS ARE FOR DR. ROSEN'S FORTHCOMING VISIT TO FONTENAY,
OCT 10

1. WHAT IS THE MAGNITUDE OF THE FRENCH ADVANCED
FUELS PROGRAM? IS IT A PROGRAM OR JUST SOME
TESTS?

2. WHAT TECHNICAL DIFFICULTIES HAVE BEEN EXPERIENCED
WITH ADVANCED FUELS?

3. WHERE IS THE LEAD FUNCTION ON ADVANCED FUELS AND WHO IS
IN CHARGE?

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4. ANY CONFIRMED PLANS FOR RAPSODIE OR PHENIX ADVANCED FUEL DEIVER ELEMENTS?
5. ANY PLANS TO DESIGN AND BUILD A PLANT FOR ANY FUEL OTHER THAN OXIDE?
6. IS ADVANCED FUEL PROGRAM RESTRICTED TO NA-BONDED VENTED FUEL PIN CONCEPT? WHAT ALTERNATIVES HAVE BEEN TESTED?
7. WHAT ARE REASONS FOR REJECTING NITRIDE, CARBONITRIDE, AND SIMILAR ADVANCED FUELS?
8. IN AN OVERPOWER EVENT, WHAT ASSURANCE IS THERE THAT VENTED NA WILL NOT BOIL, ALLOW FUEL MELTING AND SUBSEQUENT CLAD MELTING, LEADING TO MOLTEN FUEL/COOLANT INTERACTION?
9. WHAT ARE FRENCH IDEAS REGARDING SAFETY ASPECTS OF LARGE FISSION GAS RETENTION IN ADVANCED FUELS?
10. WHAT WERE THE DETAILS OF THE CABRI SHOTS WITH CARBIDE FUEL?
11. ARE FUEL COMPOSITION AND IMPURITY CONTENT (O, N, C) SIGNIFICANT VARIABLES AND IF SO, WHAT IS THE RANGE OF COMPOSITIONAL VARIABLES?
12. HOW IS THE NA-BONDED BENTED FUEL PIN ECONOMICALLY ADVANTAGEOUS?
13. WHAT ARE THE MAXIMUM BURNUP, TEMPERATURE AND LINEAR ROD POWER EXPERIENCED IN FAST FLUX IRRADIATIONS?
14. WHAT IS THE FRENCH EXPERIENCE ON ADVANCED FUEL/CLAD COMPATIBILITY? END KISSINGER

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